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| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) | | | | | | | | | Date: (MONTH/YEAR) February 1999 | |
|-----------------------------------------------------------------------------|---------|---------|---------|---------|--------|---------------------------------------------------------------------------------------------------------------|--------|--------|-------------------------------------|------------|
| APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense-wide/ Budget Activity 4 | | | | | | R-1 ITEM NOMENCLATURE Environmental Security Technology Certification Program (ESTCP) PE 0603851D8Z | | | | |
| Cost (In Millions) | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY2002 | FY2003 | FY2004 | FY2005 | Cost to Complete | Total Cost |
| Total PE 0603851D Cost | 14.500 | 16.836 | 23.260 | 27.601 | 27.726 | 27.947 | 26.316 | 25.676 | Continuing | Continuing |
| ESTCP/P514 Cost | 14.500 | 16.836 | 23.260 | 27.601 | 27.726 | 27.947 | 26.316 | 25.676 | Continuing | Continuing |

A. Mission Description and Budget Item Justification

This program demonstrates and validates the most promising innovative environmental technologies that target DoD's most urgent environmental needs and are projected to pay back the investment within five years through cost savings and improved efficiencies. It responds to: (1) congressional concern over the slow pace of remediation of environmentally polluted sites on military installations, (2) congressional direction to conduct demonstrations specifically focused on emerging new technologies, (3) Executive Order 12856 which requires Federal agencies to place a high priority on obtaining funding and resources needed for the development of innovative pollution prevention programs and technologies for installations and in acquisitions, and (4) the need to improve defense readiness by reducing the drain on the Department's operation and maintenance dollars caused by real world commitments such as environmental restoration and waste management. Preference for demonstrations are given to technologies that respond to Environmental Security objectives, have successfully completed all necessary research and development objectives, and address the highest priority DoD environmental requirements. Project funding supports the following categories for each year.

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FY 1998 Accomplishments:

- Reviewed and selected technologies for demonstration.
- Reviewed and selected sites for demonstration of remediation technologies.
- Prepared site-specific implementation plans (\$0.500 million).
- Prepared sites and secure regulatory permitting (\$2.700 million).
- Demonstration and evaluation of selected technologies (\$11.300 million).

FY 1999 Plans:

- Review and select technologies for demonstration.
- Review and select sites for demonstration of technologies.
- Prepare site-specific implementation plans (\$0.610 million).
- Prepare sites and secure regulatory permitting (\$2.770million).
- Award demonstration testing and evaluation for selected technologies (\$13.456 million).

The FY99 funds are invested in projects which address priority DoD environmental requirements. The funds are programmed in the areas of:

- Cleanup: To demonstrate and validate innovative technologies to restore DoD facilities contaminated with toxic, explosive, or hazardous waste. (\$8.848 Million)
- Compliance: To demonstrate and validate innovative technologies to ensure DoD complies with our federal, state, and local environmental laws. (\$2.953 Million)
- Pollution Prevention: To demonstrate validate innovative technologies to reduce the use of hazardous materials, and curb emissions of pollutants in military operations as well as weapons systems manufacturing, operations, and maintenance. (\$5.035 Million)

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FY 2000 Plans:

- Review and select technologies for demonstration.
- Review and select sites for demonstration of technologies.
- Prepare site-specific implementation plans (\$0.700 million).
- Prepare sites and secure regulatory permitting (\$2.800 million).
- Award demonstration testing and evaluation for selected technologies (\$19.760 million).

FY 2001-05 Plans: The ESTCP will continue to program and budget for the most promising innovative environmental technologies that target DoD's most urgent environmental needs and are projected to pay back the investment within five years.

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Justification for Budget Activity Assignment: To conform to the defined DoD acquisition milestones sequence, this program element is categorized under Budget Activity 4, Demonstration and Validation (Dem/Val).

Acquisition Strategy: When demonstration and validation of a particular technology is completed, and if the technology is found to be effective and affordable by users, regulators and other stakeholders, a user data package will be developed and distributed, e.g., specification, procurement package, etc., providing details to users on the technologies validated cost and performance and on how to acquire and implement the technology. When this step is completed, the demonstration will be considered successful.

B. Program Change Summary

| | <u>FY 1998</u> | <u>FY 1999</u> | <u>FY2000</u> | <u>Total Cost</u> |
|----------------------------------------------|----------------|----------------|---------------|-------------------|
| Previous President's Budget | 15.164 | 17.051 | 16.650 | Continuing |
| Appropriated Value | 15.164 | 17.051 | | |
| Adjustments to Appropriated Value | | | | |
| a. Undistributed reduction | (.301) | | | |
| b. SBIR | (.363) | (.215) | | |
| Current Budget Submit/ President's Budget | 14.500 | 16.836 | 23.260 | Continuing |

Change Summary Explanation: FY 1998 changes are due to congressional undistributed reductions. FY 1999 changes are below threshold program adjustments. FY00 -05 reflect changes due to increased requirements.

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C. Other Program Funding Summary Not applicable.

D. Acquisition Strategy ESTCP projects are individually managed by the designated Service leads. Contracting is performed by the Service organization with responsibility for leading the validation effort for the technology being demonstrated.

E. Schedule Profile (Fiscal Year actual and planned events by quarter)

| | <u>FY 1999</u> | | | | <u>FY 2000</u> | | | | <u>FY 2001</u> | | | | <u>FY 2001</u> | | | |
|----------------------------------------------------------|----------------|---|---|---|----------------|---|---|---|----------------|---|---|---|----------------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Acquisition Milestones | | | | | | | | | | | | | | | | |
| - Select technology | | | | X | | | | | | | | | | | | |
| - Select site | | | | | X | | | | | | | | | | | |
| Engineering Milestones | | | | | | | | | | | | | | | | |
| - Complete site prep and regulatory permitting | | | | | | | X | | | | | | | | | |
| T&E Milestones | | | | | | | | | | | | | | | | |
| - Complete T&E | | | | | | | | | | | X | | | | | |
| Contract Milestones | | | | | | | | | | | | | | | | |
| Other Program Events | | | | | | | | | | | | | | | | |
| - Obtain user, regulator and other stakeholder approvals | | | | | | | | | | | | | | X | | |
| - Develop and distribute user data packages | | | | | | | | | | | | | | | X | |

This program continues from FY 2001 through FY 2005. The above milestones reflect the average life cycle of a typical, successful remediation demonstration utilizing FY 1999 funding. A similar pattern is expected for FY 2001 and outyear funding.

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| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3) | | DATE : (MONTH/YEAR) |
|----------------------------------------------------|----------------------------------------------------------------------------------|---------------------|
| | | February 1999 |
| APPROPRIATION/BUDGET ACTIVITY | R-1 ITEM NOMENCLATURE PE NUMBER/PROJECT NUMBER | |
| RDT&E, Defense-wide/Budget Activity 4 | Environmental Security Technology Certification Program (ESTCP) PE 0603851D8Z | |

| | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 |
|-------------------------------|---------|---------|---------|---------|---------|
| Project Cost Categories | | | | | |
| Cost Categories: | | | | | |
| a. Demonstration & Validation | 13,750 | 16,103 | 22,410 | 26,651 | 26,776 |
| b. Program Management Support | 750 | 733 | 850 | 950 | 950 |
| TOTAL | 14,500 | 16,836 | 23,260 | 27,601 | 27,726 |

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| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3) | | DATE : (MONTH/YEAR) |
|----------------------------------------------------|----------------------------------------------------------------------------------|---------------------|
| February 1999 | | |
| APPROPRIATION/BUDGET ACTIVITY | R-1 ITEM NOMENCLATURE PE NUMBER/PROJECT NUMBER | |
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B. Budget Acquisition History and Planning Information

Performing Organizations

| Contractor or Government Performing Activity | Contract Method/Type or Funding Vehicle | Award or Obligation Date | Performing Activity EAC | Project Office EAC | Total Prior to FY 1998 | Budget FY 1998 | Budget FY 1999 | Budget FY 2000 | Budget FY2001 | Budget to Complete | Total Program |
|-------------------------------------------------------|--------------------------------------------------|-----------------------------|----------------------------|-----------------------|---------------------------|-------------------|-------------------|-------------------|------------------|-----------------------|------------------|
| DoD | C | - | - | - | 89.389 | 14.500 | 16.836 | 23.260 | 27.601 | Continuing | Continuing |
| Actual or Budget Value (\$ in millions) | | | | | | | | | | | |

Government Furnished Property

| Item Description | Contract Method/Type or Funding Vehicle | Award or obligation Date | Delivery Date | Total Prior to FY1997 | Budget 1997 | Budget 1998 | Budget 1999 | Budget to Complete | Total Program |
|------------------|-----------------------------------------------|-----------------------------|---------------|--------------------------|-------------|-------------|-------------|-----------------------|---------------|
|------------------|-----------------------------------------------|-----------------------------|---------------|--------------------------|-------------|-------------|-------------|-----------------------|---------------|

Product Development Property (list each item separately) N/A

Support and Management Property (list each item separately) N/A

Test and Evaluation Property (list each item separately) N/A

Subtotal Product and Development

Subtotal Support and Management

Subtotal Test and Evaluation

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